

Table 1
 Surfacewater Analytical Data - Region 9
 Upper Animas River

ADSSDV	CAS.NO	Units	Location	SJLP	SJFP	SJHB	SJSR	SJDS	SJ4C	MECT	SJME
			Sample ID	SJLP-080915-11	SJFP-080915-11	SJHB-080915-11	SJSR-080915-11	SJDS-080915-11	SJ4C-080915-11	MECT-080915-11	SJME-080915-12
			Date	8/9/2015	8/9/2015	8/9/2015	8/9/2015	8/9/2015	8/9/2015	8/9/2015	8/9/2015
			Sample Time	9:54	10:15	11:31	12:35	13:15	15:20	17:05	16:35
			Latitude	36.73589	36.74816	36.74519	36.78162	36.89331	36.99622	37.21846	37.21681
Analyte	CAS.NO	Units	Longitude	-108.25399	-108.41202	-108.53776	-108.69278	-108.87864	-109.00468	-109.19081	-109.19615
Metals, Dissolved											
Aluminum, Dissolved	7429-90-5	ug/L	--	< 24 U	< 24 U	330	1800	1400	< 24 U	62 J	5700 J
Antimony, Dissolved	7440-36-0	ug/L	--	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U
Arsenic, Dissolved	7440-38-2	ug/L	--	0.42 J	0.41 J	0.39 J	0.8 J	0.81 J	0.56 J	1.3	1
Barium, Dissolved	7440-39-3	ug/L	--	72	68	70	81	80	76	85	120
Beryllium, Dissolved	7440-41-7	ug/L	--	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	0.26 J
Cadmium, Dissolved	7440-43-9	ug/L	--	< 0.043 U	< 0.043 U	< 0.043 U	< 0.043 U	< 0.043 U	< 0.043 U	< 0.043 U	< 0.043 U
Calcium, Dissolved	7440-70-2	ug/L	--	51000	50000	52000	51000	54000	55000	160000	61000
Chromium, Dissolved	7440-47-3	ug/L	--	< 1 U	< 1 U	< 1 U	1.2 J	< 1 U	< 1 U	< 1 U	5
Cobalt, Dissolved	7440-48-4	ug/L	--	< 0.12 U	0.12 J	0.2 J	0.67	0.54	< 0.12 U	0.5	1.6
Copper, Dissolved	7440-50-8	ug/L	--	1.7	1.5	1.8	4	3.5	1.7	2.6	5.1
Iron, Dissolved	7439-89-6	ug/L	--	< 17 U	< 17 U	220	1300	1000	< 17 U	17 J	3500 J
Lead, Dissolved	7439-92-1	ug/L	--	< 0.06 U	< 0.06 U	0.36	2.7	3.5	< 0.06 U	0.072 J	2.9
Magnesium, Dissolved	7439-95-4	ug/L	--	6600	6500	6800	6500	6800	6800	68000	8500
Manganese, Dissolved	7439-96-5	ug/L	--	5.1	4.1	6.1	32	32	4.3	4.2	67
Mercury, Dissolved	7439-97-6	ug/L	--	< 0.08 U	< 0.08 U	< 0.08 U	< 0.08 U	< 0.08 U	< 0.08 U	< 0.08 U	< 0.08 U
Molybdenum, Dissolved	7439-98-7	ug/L	--	1.4	1.5	1.5 J	1.5 J	1.7	1.9	3	2 J
Nickel, Dissolved	7440-02-0	ug/L	--	1.2	1.2	1.1	1.8	1.5	1	3.4	3.2
Potassium, Dissolved	7440-09-7	ug/L	--	2400	2300	2500	2900	2800	2800	5400	4500
Selenium, Dissolved	7782-49-2	ug/L	--	0.87 J	< 0.58 U	0.7 J	< 0.58 U	< 0.58 U	1 J	1.3 J	0.84 J
Silver, Dissolved	7440-22-4	ug/L	--	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Sodium, Dissolved	7440-23-5	ug/L	--	19000	20000	22000	26000	24000	24000	67000	31000
Thallium, Dissolved	7440-28-0	ug/L	--	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Vanadium, Dissolved	7440-62-2	ug/L	--	0.84 J	0.81 J	1.3	3.4	2.8	1	2.5	9.6
Zinc, Dissolved	7440-66-6	ug/L	--	< 2.8 U	< 2.8 U	< 2.8 U	6.7 J	7 J	< 2.8 U	< 2.8 U	12 J
Metals, Total											
Aluminum, Total	7429-90-5	ug/L	--	25000	25000	35000	43000	31000	33000	8600	58000
Antimony, Total	7440-36-0	ug/L	--	< 0.4 UJ	< 0.4 UJ	< 0.4 UJ	< 0.4 UJ	< 0.4 UJ	0.4 J	< 0.4 UJ	< 0.4 UJ
Arsenic, Total	7440-38-2	ug/L	--	6.3	5.1	6.2	9.9	9.4	13	4.1	10
Barium, Total	7440-39-3	ug/L	--	520	340	520	630	490	540	180	880
Beryllium, Total	7440-41-7	ug/L	--	1.8	1.4	2.4	2.5	1.8	2	0.53	3.7
Cadmium, Total	7440-43-9	ug/L	--	0.19	< 0.086 U	< 0.086 U	< 0.086 U	0.12 J	0.11 J	0.13	0.33
Calcium, Total	7440-70-2	ug/L	--	72000	64000	81000	74000	72000	87000	190000	130000
Chromium, Total	7440-47-3	ug/L	--	16	17	22	22	18	18	5.9	28
Cobalt, Total	7440-48-4	ug/L	--	13	10	17	18	13	14	3.6	24
Copper, Total	7440-50-8	ug/L	--	33	32	42	50	44	62	9.6	55
Iron, Total	7439-89-6	ug/L	--	24000	22000	31000	40000	31000	35000	7600	46000
Lead, Total	7439-92-1	ug/L	--	48	47	57	70	96	180	7.9	46
Magnesium, Total	7439-95-4	ug/L	--	13000	13000	16000	16000	14000	17000	73000	27000
Manganese, Total	7439-96-5	ug/L	--	830	500	990	860	700	740	360	1300

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Mercury, Total	7439-97-6	ug/L	--	Mercury, Total	7439-97-6	ug/L	--	< 0.08 U	< 0.08 U	< 0.08 U	< 0.08 U	< 0.08 U
Molybdenum, Total	7439-98-7	ug/L	--	Molybdenum, Total	7439-98-7	ug/L	--	1.3 J-	1.4 J-	1.1 J-	1.3 J-	1.7 J-
Nickel, Total	7440-02-0	ug/L	--	Nickel, Total	7440-02-0	ug/L	--	17	15	22	22	17
Potassium, Total	7440-09-7	ug/L	--	Potassium, Total	7440-09-7	ug/L	--	7600	7300	9200	9700	8100
Selenium, Total	7782-49-2	ug/L	--	Selenium, Total	7782-49-2	ug/L	--	< 0.58 U	0.92 J	< 0.58 U	0.6 J	1.1 J
Silver, Total	7440-22-4	ug/L	--	Silver, Total	7440-22-4	ug/L	--	0.3 J	0.31 J	0.38 J	0.44 J	0.67 J
Sodium, Total	7440-23-5	ug/L	--	Sodium, Total	7440-23-5	ug/L	--	20000	22000	24000	29000	26000
Thallium, Total	7440-28-0	ug/L	--	Thallium, Total	7440-28-0	ug/L	--	0.28	0.26	0.38	0.46	0.35
Vanadium, Total	7440-62-2	ug/L	--	Vanadium, Total	7440-62-2	ug/L	--	34	31	42	57	43
Zinc, Total	7440-66-6	ug/L	--	Zinc, Total	7440-66-6	ug/L	--	110 J-	94 J-	130 J-	150 J-	130 J-
General				General								
Alkalinity	STL00171	mg/L	--	Alkalinity	STL00171	mg/L	--	92	93	94	95	92
pH	STL00204	SU	--	pH	STL00204	SU	--	8.1 J	8.03 J	8.12 J	8.11 J	8.07 J
Total Dissolved Solids	STL00242	mg/L	--	Total Dissolved Solids	STL00242	mg/L	--	280	240	310	320	160
Total Hardness	STL00009	mg/L	--	Total Hardness	STL00009	mg/L	--	230	210	270	250	240
Total Suspended Solids	STL00161	mg/L	--	Total Suspended Solids	STL00161	mg/L	--	1600	1100	2200	1600	2100

Bold - Bolded results identify a detected value.

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J - Data Estimated qualifier (also applied to all data less than PQL, greater than or equal to MDL)

MDL - Method Detection Limit

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mg/L - Parts per million (milligrams per liter). Solids equivalent = mg/Kg.

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Upper Animas River

ADSSDV	CAS.NO	Units	Location	SJ4C	MECT	SJME	SJMC	SJBB	SJMH	SJ4C	SJME
			Sample ID	SJ4C-080915-11	MECT-080915-11	SJME-080915-12	SJMC-080915-11	SJBB-080915-11	SJMH-080915-11	SJ4C-080915-11	SJME-080915-11
			Date	8/9/2015	8/9/2015	8/9/2015	8/9/2015	8/9/2015	8/9/2015	8/9/2015	8/9/2015
			Sample Time	15:20	17:05	16:35	17:50	18:25	19:05	15:20	16:35
			Latitude	36.99622	37.21846	37.21681	37.25823	37.25737	37.14999	36.99622	37.21681
			Longitude	-109.00468	-109.19081	-109.19615	-109.31060	-109.61859	-109.86628	-109.00468	-109.19615
Analyte	CAS.NO	Units									
Metals, Dissolved											
Aluminum, Dissolved	7429-90-5	ug/L	--	< 24 U	62 J	5700 J	28 J	< 24 U	< 24 U	< 24 U	3200 J
Antimony, Dissolved	7440-36-0	ug/L	--	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U
Arsenic, Dissolved	7440-38-2	ug/L	--	0.56 J	1.3	1	0.86 J	1.1	2	0.56 J	1.1
Barium, Dissolved	7440-39-3	ug/L	--	76	85	120	77	74	130	76	97
Beryllium, Dissolved	7440-41-7	ug/L	--	< 0.15 U	< 0.15 U	0.26 J	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U
Cadmium, Dissolved	7440-43-9	ug/L	--	< 0.043 U	< 0.043 U	< 0.043 U	< 0.043 U	< 0.043 U	< 0.043 U	< 0.043 U	< 0.043 U
Calcium, Dissolved	7440-70-2	ug/L	--	55000	160000	61000	57000	57000	56000	55000	59000
Chromium, Dissolved	7440-47-3	ug/L	--	< 1 U	< 1 U	5	< 1 U	< 1 U	< 1 U	< 1 U	2.5
Cobalt, Dissolved	7440-48-4	ug/L	--	< 0.12 U	0.5	1.6	0.13 J	0.13 J	0.31 J	< 0.12 U	0.87
Copper, Dissolved	7440-50-8	ug/L	--	1.7	2.6	5.1	2	2.3	2.8	1.7	3.9
Iron, Dissolved	7439-89-6	ug/L	--	< 17 U	17 J	3500 J	< 17 U	< 17 U	< 17 U	< 17 U	2000 J
Lead, Dissolved	7439-92-1	ug/L	--	< 0.06 U	0.072 J	2.9	< 0.06 U	< 0.06 U	< 0.06 U	< 0.06 U	1.5
Magnesium, Dissolved	7439-95-4	ug/L	--	6800	68000	8500	8200	8000	8500	6800	7800
Manganese, Dissolved	7439-96-5	ug/L	--	4.3	4.2	67	1.2 J	< 1.2 U	< 1.2 U	4.3	34
Mercury, Dissolved	7439-97-6	ug/L	--	< 0.08 U	< 0.08 U	< 0.08 U	< 0.08 U	< 0.08 U	< 0.08 U	< 0.08 U	< 0.08 U
Molybdenum, Dissolved	7439-98-7	ug/L	--	1.9	3	2 J	2.1	2.1	2.4 J	1.9	2.1 J
Nickel, Dissolved	7440-02-0	ug/L	--	1	3.4	3.2	1.5	1.2	1.4	1	2.2
Potassium, Dissolved	7440-09-7	ug/L	--	2800	5400	4500	3000	3400	4400	2800	3900
Selenium, Dissolved	7782-49-2	ug/L	--	1 J	1.3 J	0.84 J	0.9 J	0.86 J	0.92 J	1 J	0.98 J
Silver, Dissolved	7440-22-4	ug/L	--	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Sodium, Dissolved	7440-23-5	ug/L	--	24000	67000	31000	30000	31000	44000	24000	31000
Thallium, Dissolved	7440-28-0	ug/L	--	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Vanadium, Dissolved	7440-62-2	ug/L	--	1	2.5	9.6	2.6	2.8	7.9	1	5.9
Zinc, Dissolved	7440-66-6	ug/L	--	< 2.8 U	< 2.8 U	12 J	< 2.8 U	< 2.8 U	< 2.8 U	< 2.8 U	7.1 J
Metals, Total											
Aluminum, Total	7429-90-5	ug/L	--	33000	8600	58000	46000	53000	180000	33000	59000
Antimony, Total	7440-36-0	ug/L	--	0.4 J	< 0.4 UJ	< 0.4 UJ	< 0.4 UJ	< 0.4 UJ	< 0.4 UJ	0.4 J	< 0.4 UJ
Arsenic, Total	7440-38-2	ug/L	--	13	4.1	10	8.9	9.2	21	13	11
Barium, Total	7440-39-3	ug/L	--	540	180	880	600	720	2300	540	860
Beryllium, Total	7440-41-7	ug/L	--	2	0.53	3.7	2.6	3.1	8.1	2	3.7
Cadmium, Total	7440-43-9	ug/L	--	0.11 J	0.13	0.33	< 0.086 U	0.12 J	< 0.22 U	0.11 J	0.34
Calcium, Total	7440-70-2	ug/L	--	87000	190000	130000	97000	130000	480000	87000	130000
Chromium, Total	7440-47-3	ug/L	--	18	5.9	28	25	27	70	18	28
Cobalt, Total	7440-48-4	ug/L	--	14	3.6	24	19	22	55	14	23
Copper, Total	7440-50-8	ug/L	--	62	9.6	55	44	51	87	62	54
Iron, Total	7439-89-6	ug/L	--	35000	7600	46000	38000	43000	85000	35000	47000
Lead, Total	7439-92-1	ug/L	--	180	7.9	46	33	40	85	180	46
Magnesium, Total	7439-95-4	ug/L	--	17000	73000	27000	21000	26000	95000	17000	27000
Manganese, Total	7439-96-5	ug/L	--	740	360	1300	940	1200	3400	740	1200

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 Upper Animas River

Mercury, Total	7439-97-6	ug/L	--	< 0.08 U	< 0.08 U	< 0.08 U	< 0.08 U	< 0.08 U	< 0.08 U	< 0.08 U	< 0.08 U
Molybdenum, Total	7439-98-7	ug/L	--	2.8 J-	3.1 J-	1.4 J-	1.5 J-	1.5 J-	1.7 J-	2.8 J-	1.7 J-
Nickel, Total	7440-02-0	ug/L	--	20	9.8	37	26	32	110	20	36
Potassium, Total	7440-09-7	ug/L	--	9300	8100	15000	11000	13000	46000	9300	15000
Selenium, Total	7782-49-2	ug/L	--	0.98 J	< 0.58 U	< 0.58 U	0.84 J	< 0.58 U	5.2 J	0.98 J	< 0.58 U
Silver, Total	7440-22-4	ug/L	--	1.3	< 0.1 U	0.27 J	0.19 J	0.2 J	0.39 J	1.3	0.26 J
Sodium, Total	7440-23-5	ug/L	--	26000	67000	33000	32000	35000	58000	26000	32000
Thallium, Total	7440-28-0	ug/L	--	0.4	0.16 J	0.68	0.49	0.57	1.4	0.4	0.71
Vanadium, Total	7440-62-2	ug/L	--	50	17	66	60	68	160	50	70
Zinc, Total	7440-66-6	ug/L	--	160 J-	29 J-	160 J-	130 J-	150 J-	290 J-	160 J-	160 J-
General											
Alkalinity	STL00171	mg/L	--	88	210	91	100	110	110	88	96
pH	STL00204	SU	--	8.08 J	8.26 J	8.08 J	8.14 J	8.1 J	8.12 J	8.08 J	8.01 J
Total Dissolved Solids	STL00242	mg/L	--	140	1000	330	160	310	260	140	340
Total Hardness	STL00009	mg/L	--	290	780	440	330	430	1600	290	430
Total Suspended Solids	STL00161	mg/L	--	2000	620	2900	3300	430	8200	2000	3000

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MDL - Method Detection Limit

PQL - Practical Quantitation Limit, also known as reporting limit.

U - Analyte not detected at or above MDL qualifier

D - Diluted value qualifier.

mg/L - Parts per million (milligrams per liter). Solids equivalent = mg/Kg.

ug/L - Parts per billion (micrograms per liter). Solids equivalent = ug/Kg

Table 1
 Surfacewater Analytical Data - Region 9
 Upper Animas River

ADSSDV			Location	SJBB
			Sample ID	SJBB-080915-11
			Date	8/9/2015
			Sample Time	18:25
			Latitude	37.25737
			Longitude	-109.61859
Analyte	CAS.NO	Units		
Metals, Dissolved				
Aluminum, Dissolved	7429-90-5	ug/L	--	< 24 U
Antimony, Dissolved	7440-36-0	ug/L	--	< 0.4 U
Arsenic, Dissolved	7440-38-2	ug/L	--	1.1
Barium, Dissolved	7440-39-3	ug/L	--	74
Beryllium, Dissolved	7440-41-7	ug/L	--	< 0.15 U
Cadmium, Dissolved	7440-43-9	ug/L	--	< 0.043 U
Calcium, Dissolved	7440-70-2	ug/L	--	57000
Chromium, Dissolved	7440-47-3	ug/L	--	< 1 U
Cobalt, Dissolved	7440-48-4	ug/L	--	0.13 J
Copper, Dissolved	7440-50-8	ug/L	--	2.3
Iron, Dissolved	7439-89-6	ug/L	--	< 17 U
Lead, Dissolved	7439-92-1	ug/L	--	< 0.06 U
Magnesium, Dissolved	7439-95-4	ug/L	--	8000
Manganese, Dissolved	7439-96-5	ug/L	--	< 1.2 U
Mercury, Dissolved	7439-97-6	ug/L	--	< 0.08 U
Molybdenum, Dissolved	7439-98-7	ug/L	--	2.1
Nickel, Dissolved	7440-02-0	ug/L	--	1.2
Potassium, Dissolved	7440-09-7	ug/L	--	3400
Selenium, Dissolved	7782-49-2	ug/L	--	0.86 J
Silver, Dissolved	7440-22-4	ug/L	--	< 0.1 U
Sodium, Dissolved	7440-23-5	ug/L	--	31000
Thallium, Dissolved	7440-28-0	ug/L	--	< 0.1 U
Vanadium, Dissolved	7440-62-2	ug/L	--	2.8
Zinc, Dissolved	7440-66-6	ug/L	--	< 2.8 U
Metals, Total				
Aluminum, Total	7429-90-5	ug/L	--	53000
Antimony, Total	7440-36-0	ug/L	--	< 0.4 UJ
Arsenic, Total	7440-38-2	ug/L	--	9.2
Barium, Total	7440-39-3	ug/L	--	720
Beryllium, Total	7440-41-7	ug/L	--	3.1
Cadmium, Total	7440-43-9	ug/L	--	0.12 J
Calcium, Total	7440-70-2	ug/L	--	130000
Chromium, Total	7440-47-3	ug/L	--	27
Cobalt, Total	7440-48-4	ug/L	--	22
Copper, Total	7440-50-8	ug/L	--	51
Iron, Total	7439-89-6	ug/L	--	43000
Lead, Total	7439-92-1	ug/L	--	40
Magnesium, Total	7439-95-4	ug/L	--	26000
Manganese, Total	7439-96-5	ug/L	--	1200

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Mercury, Total	7439-97-6	ug/L	--	< 0.08 U
Molybdenum, Total	7439-98-7	ug/L	--	1.5 J-
Nickel, Total	7440-02-0	ug/L	--	32
Potassium, Total	7440-09-7	ug/L	--	13000
Selenium, Total	7782-49-2	ug/L	--	< 0.58 U
Silver, Total	7440-22-4	ug/L	--	0.2 J
Sodium, Total	7440-23-5	ug/L	--	35000
Thallium, Total	7440-28-0	ug/L	--	0.57
Vanadium, Total	7440-62-2	ug/L	--	68
Zinc, Total	7440-66-6	ug/L	--	150 J-
General				
Alkalinity	STL00171	mg/L	--	110
pH	STL00204	SU	--	8.1 J
Total Dissolved Solids	STL00242	mg/L	--	310
Total Hardness	STL00009	mg/L	--	430
Total Suspended Solids	STL00161	mg/L	--	430

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